

**SOFTWARE COMPONENT EXECUTION MANAGEMENT USING CONTEXT
OBJECTS FOR TRACKING EXTERNALLY-DEFINED INTRINSIC PROPERTIES
OF EXECUTING SOFTWARE COMPONENTS WITHIN AN EXECUTION
ENVIRONMENT**

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ABSTRACT OF THE DISCLOSURE

A run-time executive of an object management system for managing execution of software components in an object execution environment uses a component context object to store intrinsic context properties related to an associated component. The run-time executive maintains an implicit association of the component context object with the application component. For example, the context properties can include a client id, an activity id, and a transaction reference. The component context object also provides an interface accessible to the associated component, with member functions for use in transaction processing, in creating additional other application components inheriting component's context properties, and in access control based on abstract user classes (roles).